## BEITT[VII (OLD) 27/5/13

## rduanced patabase systems

P3-upq-Feb.-13KL-187 A4 E

Con.	9249-13.
	•

GS-4714

(3 Hours)	[Total Marks: 100
(1) Question one is compulsory. (2) Attempt any four out of remaining. (3) Figures to the right indicate full marks.	
	10 na. 10
databases? Explain in brief different types of fragmentation.	ful in distributed 10 10
	10 10
limitations.	
	mporal relations. 10
data? What do you understand by the term self-describing dat	
<ul><li>(i) Object Identity</li><li>(ii) Object Structure.</li></ul>	
Write short notes on (any four):—  (a) Spatial Databases (b) ODL (c) Persistent Programming Languages (d) X query and X path (e) Complex Objects.	20
	(2) Attempt any four out of remaining. (3) Figures to the right indicate full marks.  Compare and contrast the object and relational data models. Describe the steps for mapping EER schema to an ODB schem What do you mean by data fragmentation, why is fragmentation use databases? Explain in brief different types of fragmentation. Explain in brief Deductive database system.  Describe different architecture for parallel database. Write a detailed note on Geographical Information System.  Explain design and implementation issues in mobile database limitations. What are the software components in Client-server system? Explain SQL3 features with examples.  What is the difference between valid time, transaction time and bite Explain SQL3 features with examples.  What is the difference between structured, semistructured ardata? What do you understand by the term self-describing data Explain the following concept with the help of example:—  (i) Object Identity (ii) Object Structure.  Write short notes on (any four):—  (a) Spatial Databases (b) ODL (c) Persistent Programming Languages (d) X query and X path

## BE (JT) SEM YII Cold) my 2013 mobile comp.

P4-RT-Exam.-Feb.-13-2-272

GS-4378 (OLD COURSE) Con. 8320-13. [Total Marks: 100] (3 Hours) N.B.: (1) Question No. 1 is compulsory. (2) Attempt any four from remaining questions. (3) Figures to right indicate full marks. (4) Assume data wherever necessary. 1. (a) Explain UMTS basic architecture and also explain frame structure for UMTS FDD 10 Mode. 10 (b) Explain the security algorithm used in GSM. 10 2. (a) Why is routing in adhoc complicated? Where are special challenges? 10 (b) Explain wireless transaction protocol. 10 3. (a) Explain basic handover scenario for WATM. 10 (b) Explain digital video Broadcasting. (a) Explain Power management in IEEE 802-11 infrastructure network and adhoc 10 network. 10 (b) Compare 802.11 a,b,g. 10 5. (a) Explain architecture of GSM system. 10 (b) Explain DECT system architecture reference model and protocol architecture. 6. (a) Explain what is mean by Tunneling and Encapsulation. How it work in IP-in-IP 10 minimal and generic routing encapsulation? Show schematic. (b) What is need of spreading the spectrum? Explain different types of spreading the 10 spectrum. 20 7. Write short notes on (any four): (a) WTA Logical Architecture Indirect TCP and Mobile TCP

QOS in mobile network

(e) Near and far terminals

(d) IPV6 advantages offer for mobility

IHSS transmitter and receiver.